US Army Corps
Of Engineers
North Atlantic Division

Coastal Planning Center of Expertise

A Systems-Approach Review of USACE Shore Protection Projects – NY, NJ, & DE:
Web-Based RSM Tool Overview

-May 2008-

Charlie Chesnutt Shore Protection Systems Initiative

In Jan 2007 Charlie asked NAD to develop a tool to help Congress budget funds for shore protection that would:

- Show entire three state Program – Coastal, Navigation, Environmental Restoration (as opposed to traditional one-project-at-a-time approach)
- Show projected program budget for 5-years
- Show shore condition of (and between) COE projects
- Show resources protected by shore protection
- Depict regional sediment system and connections between projects
- Estimate risk evolution over 5-years
- Help prioritize shore protection budgeting

"And do this in 3 months"

Charlie Chesnutt Coastal Systems Initiative
Steps & Definitions

1. Compiled NAP, NAN project data from reports into excel spreadsheets
   - type, phase, location, size, construction & renourishment dates, volumes, cross-section, initial & life cycle costs, etc.

2. 1st Cut Definition of “shore condition”

   Red = Poor (eroded)

   Yellow = Intermediate

   Green = Good (robust)

   (based on engineeing judgment/knowledge of latest surveys)

Charlie Chesnutt Coastal Systems Initiative
Steps & Definitions

3. 1st Cut Definition of Risk to Resources:

+++ Significant Resources Present

++ Moderate Resources Present

\+ Minimal Resources Present

Six types of Resources Defined:

structures, environment/habitat, infrastructure, critical facilities, evacuation routes, recreation

(based on judgment/knowledge of area)

Charlie Chesnutt Coastal Systems Initiative
Steps & Definitions

4. Populate existing NAD RSM website database
5. Add googlearth map layers to website
6. Produce separate briefing paper

Demo of Website

Click to view RSM Projects Website

Welcome / NAD RSM Homepage - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://rsm.nad.usace.army.mil/index.asp
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Data Management Plans
Filter Website by District:
Baltimore
New England
New York
Norfolk
Philadelphia
Europe
Division
Show All
The website is now displaying data for all Districts.
North Atlantic Division
Regional Sediment Management
In the past, the US Army Corps of Engineers (USACE) has focused on managing sand at coastal projects on a project-by-project basis. This approach to sand management may not adequately consider the impact of individual projects on down drift projects. To address this issue, the USACE has initiated efforts to assess the benefits of managing sediment resources as a regional scale resource rather than a localized project resource. The concept of Regional Sediment Management (RSM) is a result of the 67th meeting of the Coastal Engineering Research Board (CERB) held in May 1998.
Read more about this RSM program
US Army
US Army Corps of Engineers
North Atlantic Division
NAD Webmaster
RSM District Login

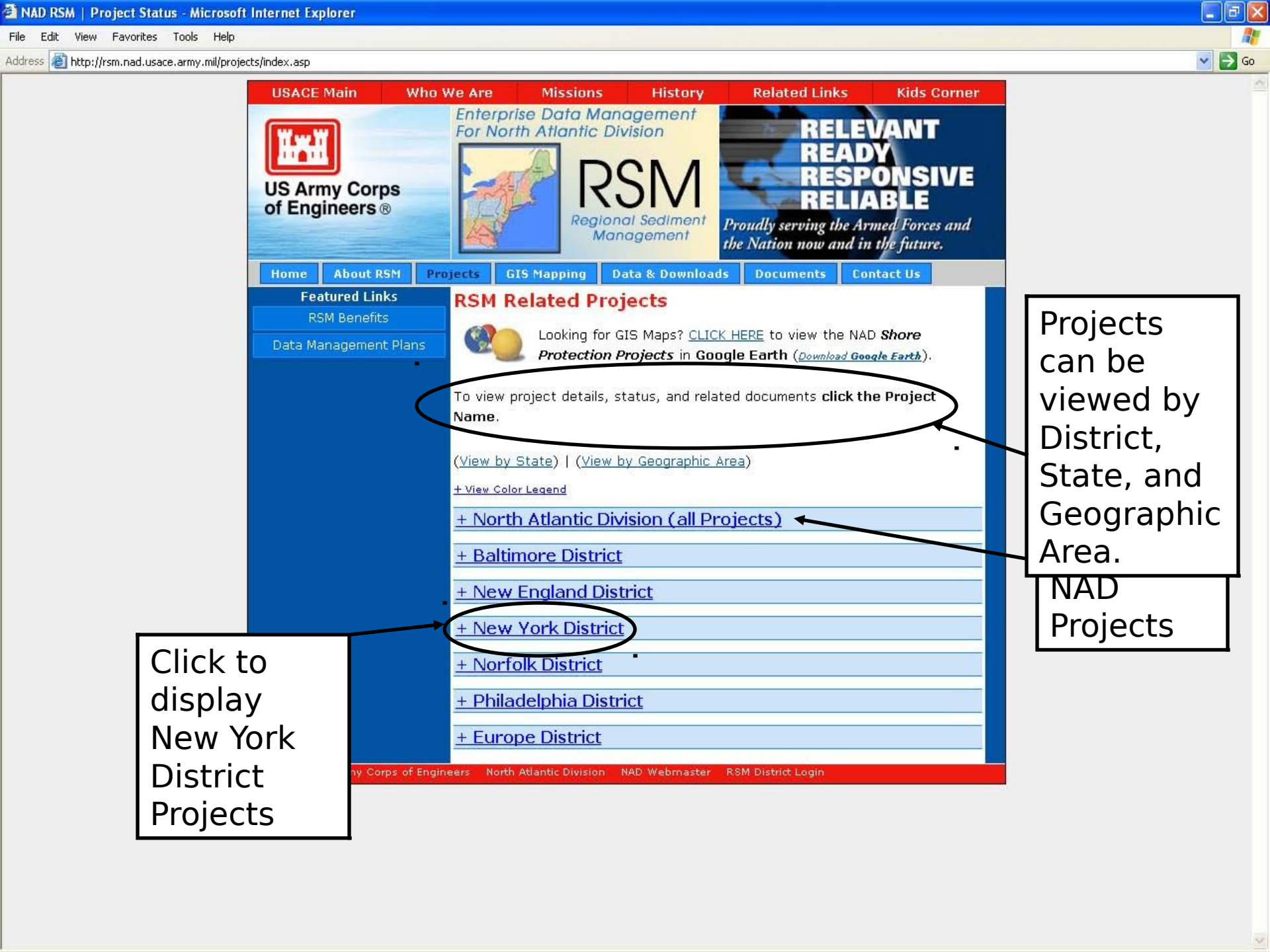
RSM Website

http://rsm.nad.usace.army.mil/index.asp

Enter password (case sensitive) → SP1234, click Login.

RSM Projects Website

http://rsm.nad.usace.army.mil/projects/login.asp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Looking for GIS Maps? CLICK HERE to view the NAD Shore Protection Projects in Google Earth (Download Google Earth).
To view project details, status, and related documents click the Project Name.
(View by State) | (View by Geographic Area)
+ View Color Legend
+ North Atlantic Division (all Projects)
+ Baltimore District
+ New England District
+ New York District
+ Norfolk District
+ Philadelphia District
+ Europe District
Corps of Engineers
North Atlantic Division
NAD Webmaster
RSM District Login
Projects can be viewed by District, State, and Geographic Area.
NAD Projects
Click to display New York District Projects

NAD RSM | Project Status - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://rsm.nad.usace.army.mil/projects/index.asp

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- RSM Benefits
- Data Management Plans

RSM Related Projects

Looking for GIS Maps? CLICK HERE to view the NAD ***Shore Protection Projects*** in **Google Earth** (*Download Google Earth*).

To view project details, status, and related documents **click the Project Name**.

(View by State) | (View by Geographic Area)

+ View Color Legend

+ North Atlantic Division (all Projects)

+ Baltimore District

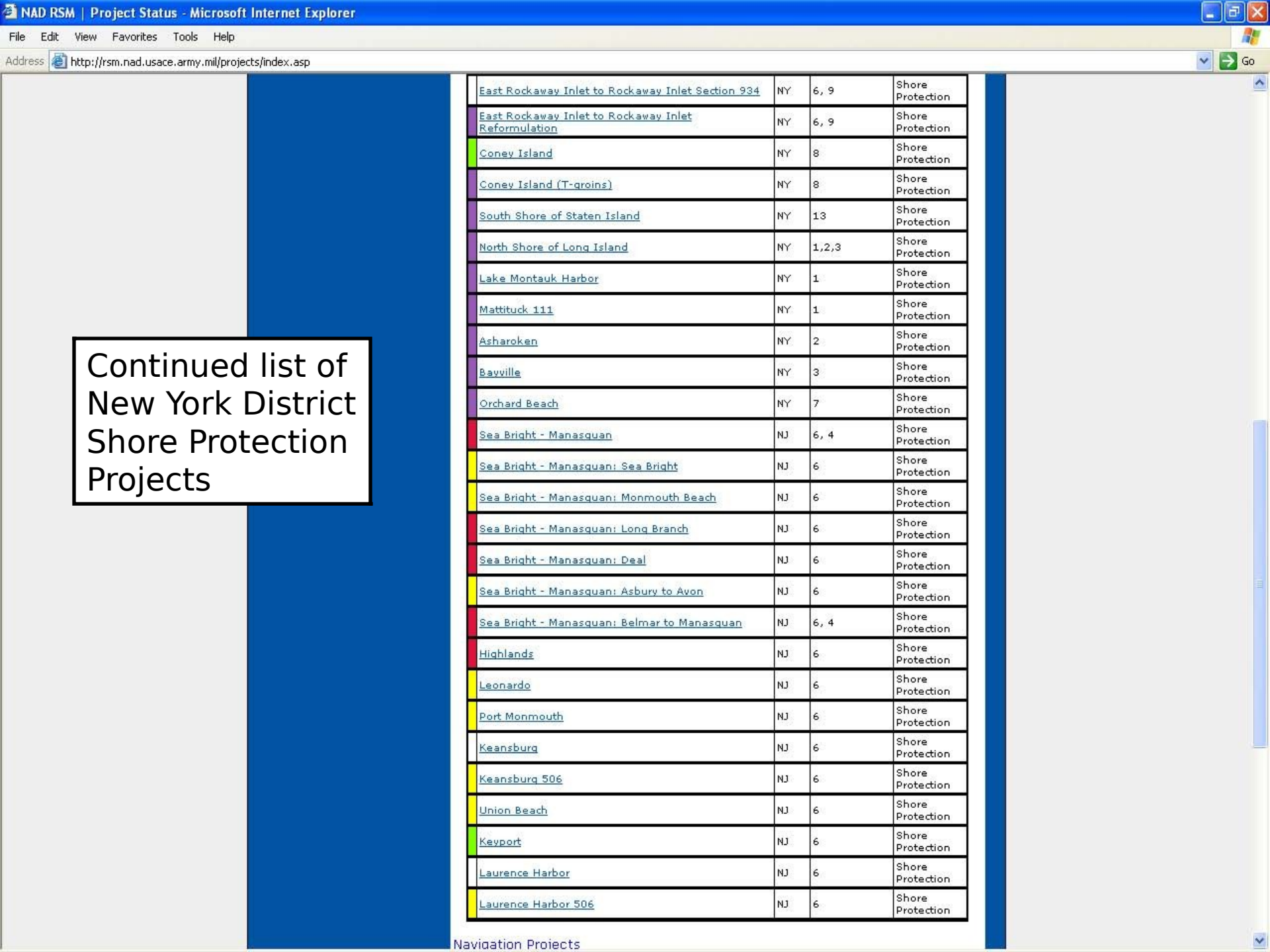
+ New England District

- New York District

Shore Protection Projects

Project Name	State	Congressional District(s)	Type
Fire Island Inlet to Montauk Point, NY Reformulation	NY	1,2,3	Shore Protection
Montauk Point	NY	1	Shore Protection
West of Shinnecock Inlet	NY	1	Shore Protection
Westhampton	NY	1	Shore Protection
Fire Island Inlet to Shores Westerly	NY	2,3	Shore Protection
Atlantic Coast of Long Island: Jones Inlet to Rockaway Inlet - Long Beach Island Rockaway Inlet - Long Beach Island	NY	3,4	Shore Protection
East Rockaway Inlet to Rockaway Inlet	NY	6, 9	Shore Protection

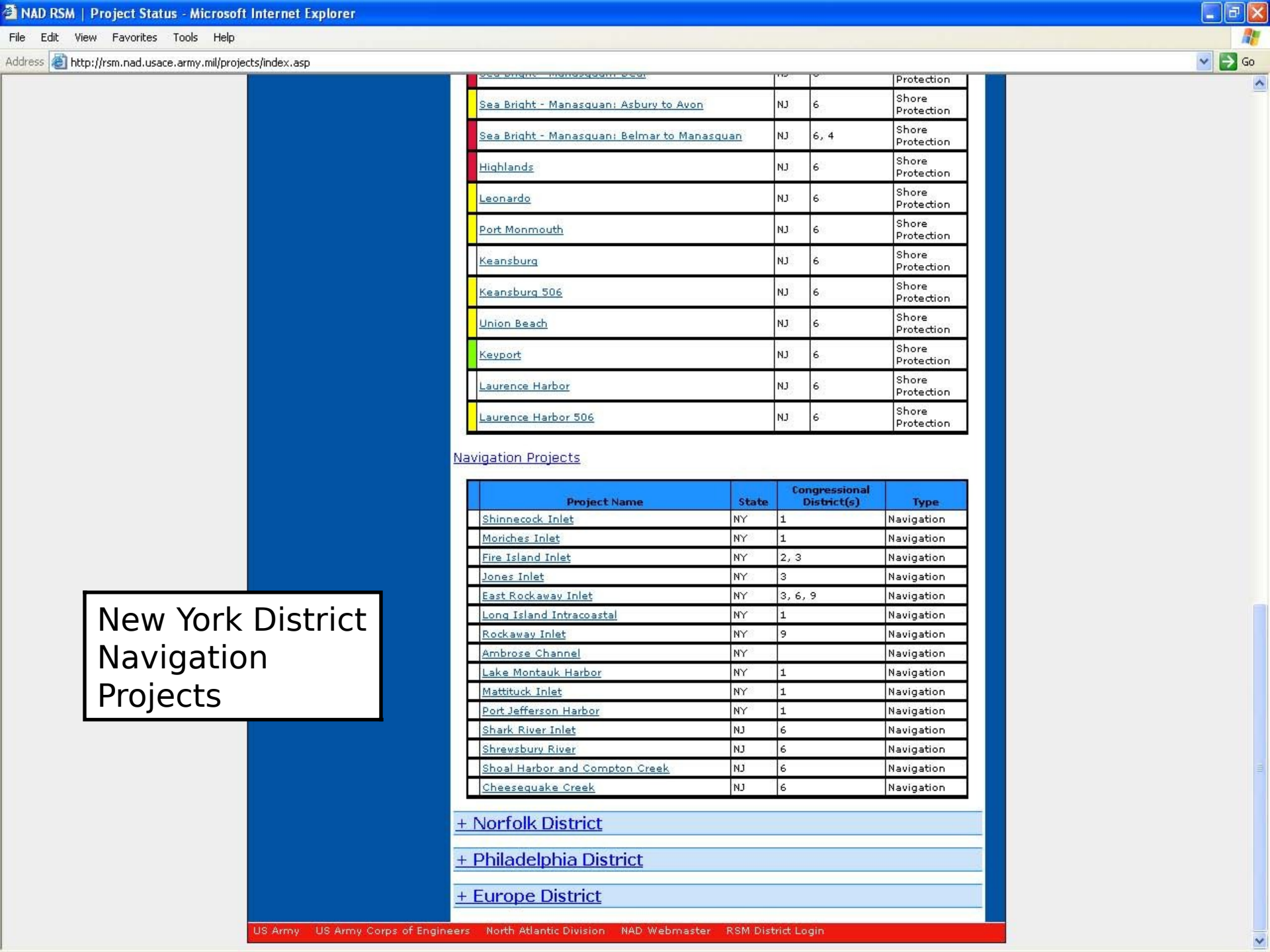
New York District Shore Protection Projects


NAD RSM | Project Status - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://rsm.nad.usace.army.mil/projects/index.asp
Go

Continued list of New York District Shore Protection Projects

East Rockaway Inlet to Rockaway Inlet Section 934	NY	6, 9	Shore Protection
East Rockaway Inlet to Rockaway Inlet Reformulation	NY	6, 9	Shore Protection
Coney Island	NY	8	Shore Protection
Coney Island (T-groins)	NY	8	Shore Protection
South Shore of Staten Island	NY	13	Shore Protection
North Shore of Long Island	NY	1,2,3	Shore Protection
Lake Montauk Harbor	NY	1	Shore Protection
Mattituck 111	NY	1	Shore Protection
Asharoken	NY	2	Shore Protection
Bayville	NY	3	Shore Protection
Orchard Beach	NY	7	Shore Protection
Sea Bright - Manasquan	NJ	6, 4	Shore Protection
Sea Bright - Manasquan: Sea Bright	NJ	6	Shore Protection
Sea Bright - Manasquan: Monmouth Beach	NJ	6	Shore Protection
Sea Bright - Manasquan: Long Branch	NJ	6	Shore Protection
Sea Bright - Manasquan: Deal	NJ	6	Shore Protection
Sea Bright - Manasquan: Asbury to Avon	NJ	6	Shore Protection
Sea Bright - Manasquan: Belmar to Manasquan	NJ	6, 4	Shore Protection
Highlands	NJ	6	Shore Protection
Leonardo	NJ	6	Shore Protection
Port Monmouth	NJ	6	Shore Protection
Keansburg	NJ	6	Shore Protection
Keansburg 506	NJ	6	Shore Protection
Union Beach	NJ	6	Shore Protection
Keyport	NJ	6	Shore Protection
Laurence Harbor	NJ	6	Shore Protection
Laurence Harbor 506	NJ	6	Shore Protection

Navigation Projects


NAD RSM | Project Status - Microsoft Internet Explorer
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Address http://rsm.nad.usace.army.mil/projects/index.asp
Go
Protection
Sea Bright - Manasquan: Asbury to Avon NJ 6 Shore Protection
Sea Bright - Manasquan: Belmar to Manasquan NJ 6, 4 Shore Protection
Highlands NJ 6 Shore Protection
Leonardo NJ 6 Shore Protection
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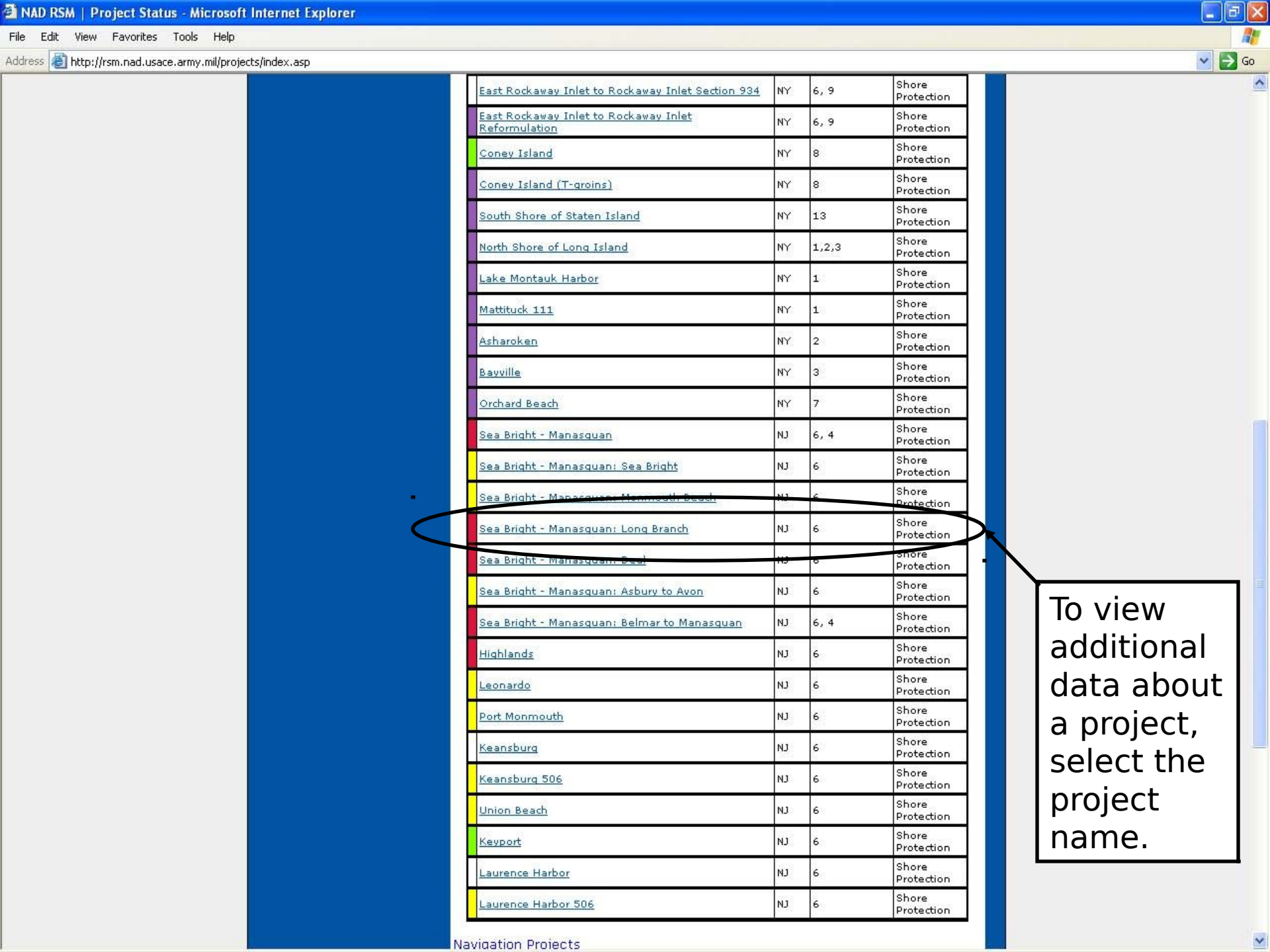
Keansburg NJ 6 Shore Protection
Keansburg 506 NJ 6 Shore Protection
Union Beach NJ 6 Shore Protection
Keyport NJ 6 Shore Protection
Laurence Harbor NJ 6 Shore Protection
Laurence Harbor 506 NJ 6 Shore Protection
Navigation Projects
Project Name State Congressional District(s) Type
Shinnecock Inlet NY 1 Navigation
Moriches Inlet NY 1 Navigation
Fire Island Inlet NY 2, 3 Navigation
Jones Inlet NY 3 Navigation
East Rockaway Inlet NY 3, 6, 9 Navigation
Long Island Intracoastal NY 1 Navigation
Rockaway Inlet NY 9 Navigation
Ambrose Channel NY Navigation
Lake Montauk Harbor NY 1 Navigation
Mattituck Inlet NY 1 Navigation
Port Jefferson Harbor NY 1 Navigation
Shark River Inlet NJ 6 Navigation
Shrewsbury River NJ 6 Navigation
Shoal Harbor and Compton Creek NJ 6 Navigation
Cheesequake Creek NJ 6 Navigation
+ Norfolk District
+ Philadelphia District
+ Europe District
US Army US Army Corps of Engineers North Atlantic Division NAD Webmaster RSM District Login

New York District Navigation Projects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Sea Bright - Manasquan: Monmouth Beach NJ 6 Shore Protection
Sea Bright - Manasquan: Long Branch NJ 6 Shore Protection
Sea Bright - Manasquan: Deal NJ 6 Shore Protection
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Union Beach NJ 6 Shore Protection
Keyport NJ 6 Shore Protection
Laurence Harbor NJ 6 Shore Protection
Laurence Harbor 506 NJ 6 Shore Protection
Navigation Projects
To view additional data about a project, select the project name.

NAD RSM | Project Details - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Project Details

Sea Bright - Manasquan: Long Branch

Details

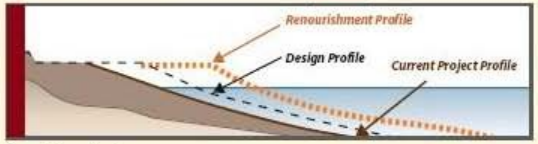
USACE District	CENAN	**Congressional District(s)**	6
Type	Shore Protection	**Project Length**	3 miles
Category	Beach Fill	**State**	NJ

+ View Project Coordinates

Condition & Report

Status

Project Reliability (Beach Condition)*: **Red**



Condition Notes:

+ View Color Legend

Damage Risk Assessments

Structures (homes, navig. Structures, etc.)	Environment/ Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

Notes: Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

+ View Risk Assessment Legend

Project Details

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992

	Initial Construction:	Initial Construction:

- View Color Legend

Red - **Poor**. Project is at or below the design profile.

Yellow - **Intermediate**. Project is late in the renourishment cycle, or the project is performing worse than expected, or both.

Green - **Good**. Project is early in the renourishment cycle, or the project is performing better than expected, or both.

Purple - **Unconstructed**. Project reliability is not applicable for unconstructed projects. For projects not yet constructed, the following will be considered: beach width, beach elevation, dune condition and erosion rates evaluated independently on a red, yellow, green scale.

NAD RSM | Project Details - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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USACE District	CENAN	**Congressional District(s)**	6
Type	Shore Protection	**Project Length**	3 miles
Category	Beach Fill	**State**	NJ

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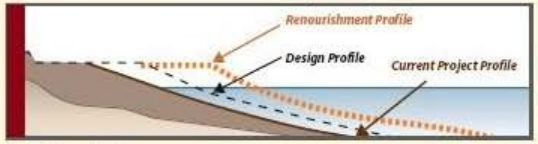
Condition & Report

Status

Project Reliability (Beach Condition)*: Red



Condition Notes:

+ View Color Legend

Damage Risk Assessments

Structures (homes, navig. Structures, etc.)	Environment/ Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

Notes: Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

+ View Risk Assessment Legend

Project Details

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992

		Initial Construction:	Initial Construction:

- View Risk Assessment Legend

Structures

+++ : High density population; urban
++ : Medium density population; suburban
+ : Low density; rural

Environment/Habitat
+++ : Critical or highly valued natural habitat
++ : Valued natural habitat
+ : Little or no natural habitat

Infrastructure
+++ : Roads, water, sewer serving high population density
++ : Roads, water, sewer serving medium population density
+ : Roads, water, sewer serving low population density

Critical Facilities
+++ : High density of facilities
++ : Medium density of facilities
+ : Low density of facilities

Evacuation Routes
+++ : Routes serving high population density
++: Routes serving medium population density
+ : Routes serving low population density

Recreation
+++ : High use recreation area
++: Medium use recreation area
+ : Low use recreation area

NAD RSM | Project Details - Microsoft Internet Explorer

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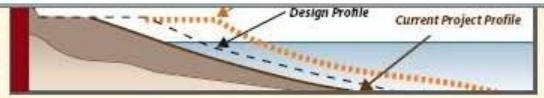
Address http://rsm.nad.usace.army.mil/projects/project_detail.asp?p=22



Condition Notes:

+ View Color Legend

Damage Risk Assessments					
Structures (homes, navig. Structures, etc.)	**Environment/ Habitat**	**Infrastructure**	**Critical Facilities**	**Evacuation Routes**	**Recreation**
+++	++	+++	++	++	+++

Notes: Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

+ View Risk Assessment Legend

Project Details			
Reconnaissance	**Feasibility**	**Chief's Report**	**Authorized for Construction**
	Jan-1989		1986/1988/1992
Reevaluation	**PCA**	**Initial Construction: Initiated**	**Initial Construction: Complete**
	July-1992	1997	1998
Renourishment Initiated	**Estimated Initial Fill Quantity(cy)****	**Actual Initial Fill Quantity(cy)****	**Renourishment Cycle (Yrs)**
	4,652,000	4,300,000	6
Estimated Renourishment Fill Quantity(cy)	**Actual Renourishment Fill Quantity (cy)**	**Date of Last Renourishment Operation**	**# of Renourishment Operations Performed**
881,000	N/A		
Date of Next Scheduled Renourishment Operation	**Estimated Cumulative Construction Cost (Price Level)**	**Actual Cumulative Construction Cost (Price Level)**	**Expected Cost for Next 5 Years**	**Phase*****
2007	$262,000,000 (2006)	$29,500,000 (1998)	$8,200,000	R

** - The initial fill quantity reflects the amount of fill specified in the originally constructed project.
*** - S = Study ; E = Pre-construction engineering and design ; A = Awaiting initial construction funds ; P = Partial construction funds received ; C = Initial construction completed ; R = Renourishment(s) initiated ; N = Navigation maintenance ; F = Finished

Documents

2 Available Document(s)

Name	Description
Project Website	http://www.nan.usace.army.mil/business/prjlinks/coastal/sandyhok/index.htm
Website Factsheet	http://www.nan.usace.army.mil/project/newjers/factsh/pdf/barneg.pdf

US Army US Army Corps of Engineers North Atlantic Division

Attach related documents, images, and websites.

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Project Details

Sea Bright - Manasquan: Long Branch

Details

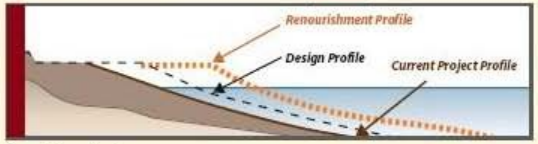
USACE District	CENAN	**Congressional District(s)**	6
Type	Shore Protection	**Project Length**	3 miles
Category	Beach Fill	**State**	NJ

+ View Project Coordinates

Condition & Report

Status

Project Reliability (Beach Condition)*: Red



Condition Notes:

+ View Color Legend

Damage Risk Assessments

Structures (homes, navig. Structures, etc.)	Environment/ Habitat	Infrastructure	Critical Facilities	Evacuation Routes	Recreation
+++	++	+++	++	++	+++

Notes: Renourishment of constructed segments has been delayed beyond the six year renourishment cycle; The cumulative construction cost for the Sea Bright to Manasquan project has been pro-rated by reach.

+ View Risk Assessment Legend

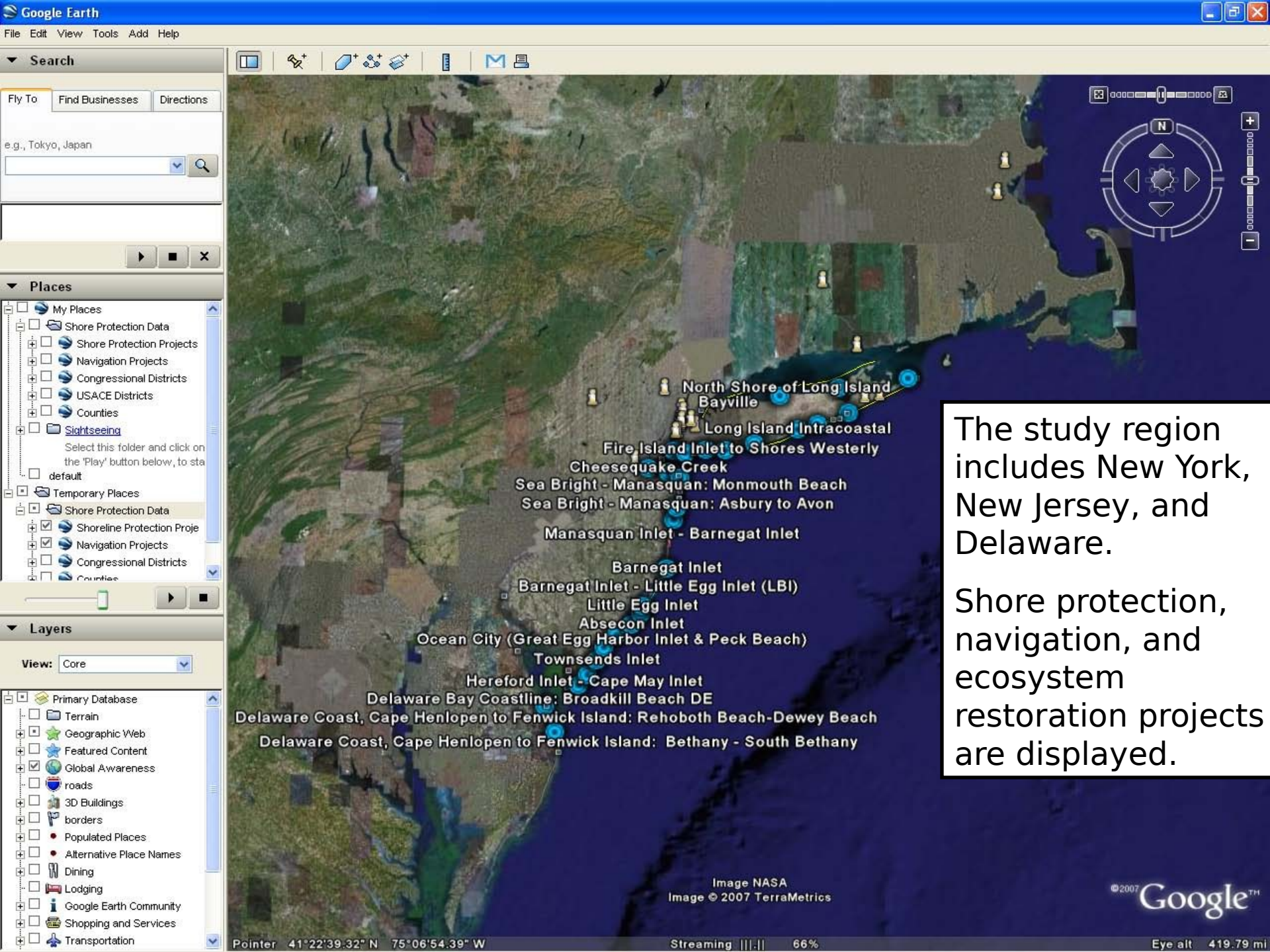
Project Details

Reconnaissance	Feasibility	Chief's Report	Authorized for Construction
	Jan-1989		1986/1988/1992

		Initial Construction:	Initial Construction:

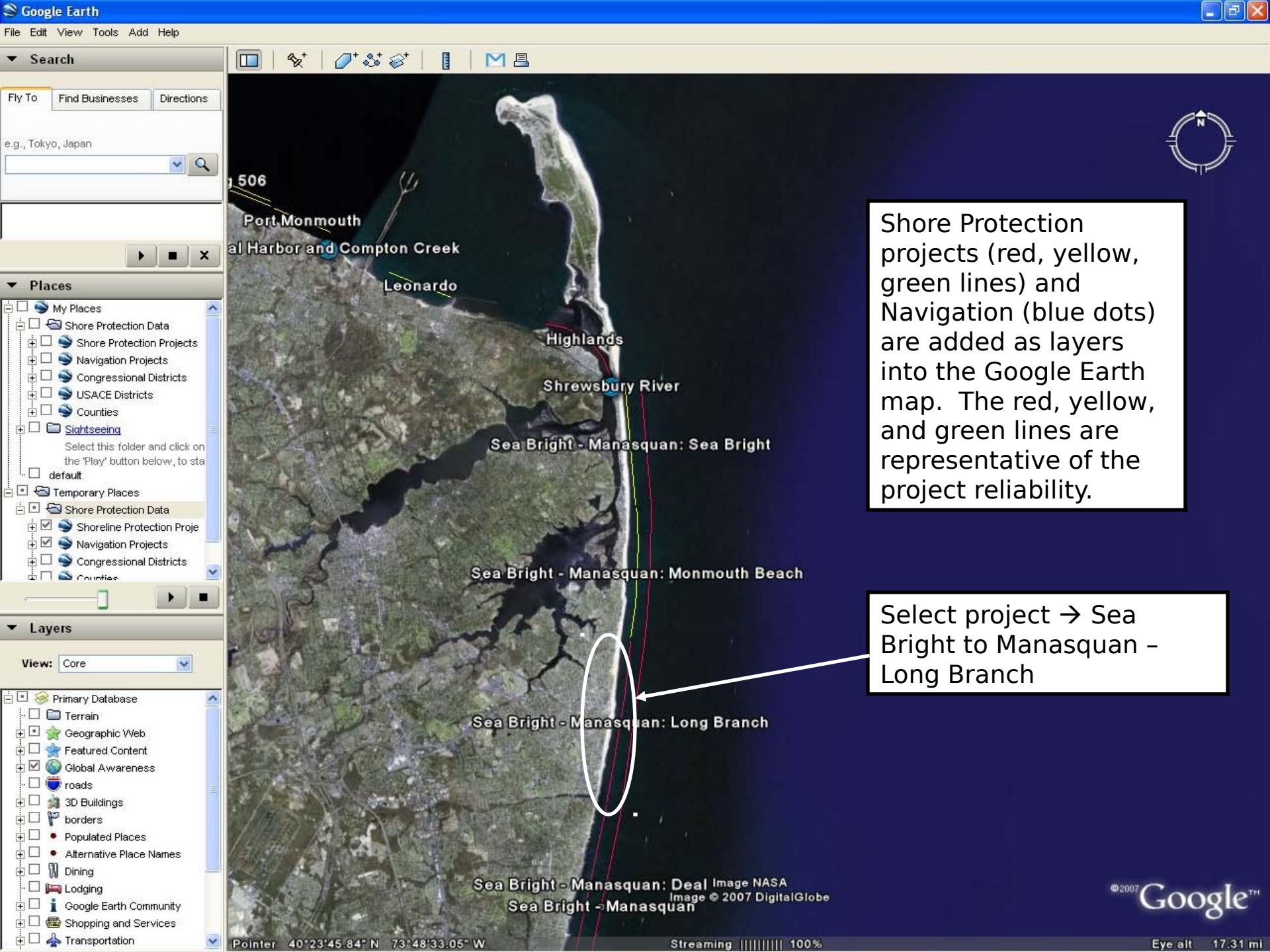
The project information ca also be viewed in a mapping environment.

Click to view th location map and project status in Goog Earth.



The study region includes New York, New Jersey, and Delaware.

Shore protection, navigation, and ecosystem restoration projects are displayed.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e.g., Tokyo, Japan
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Navigation Projects
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3D Buildings
borders
Populated Places
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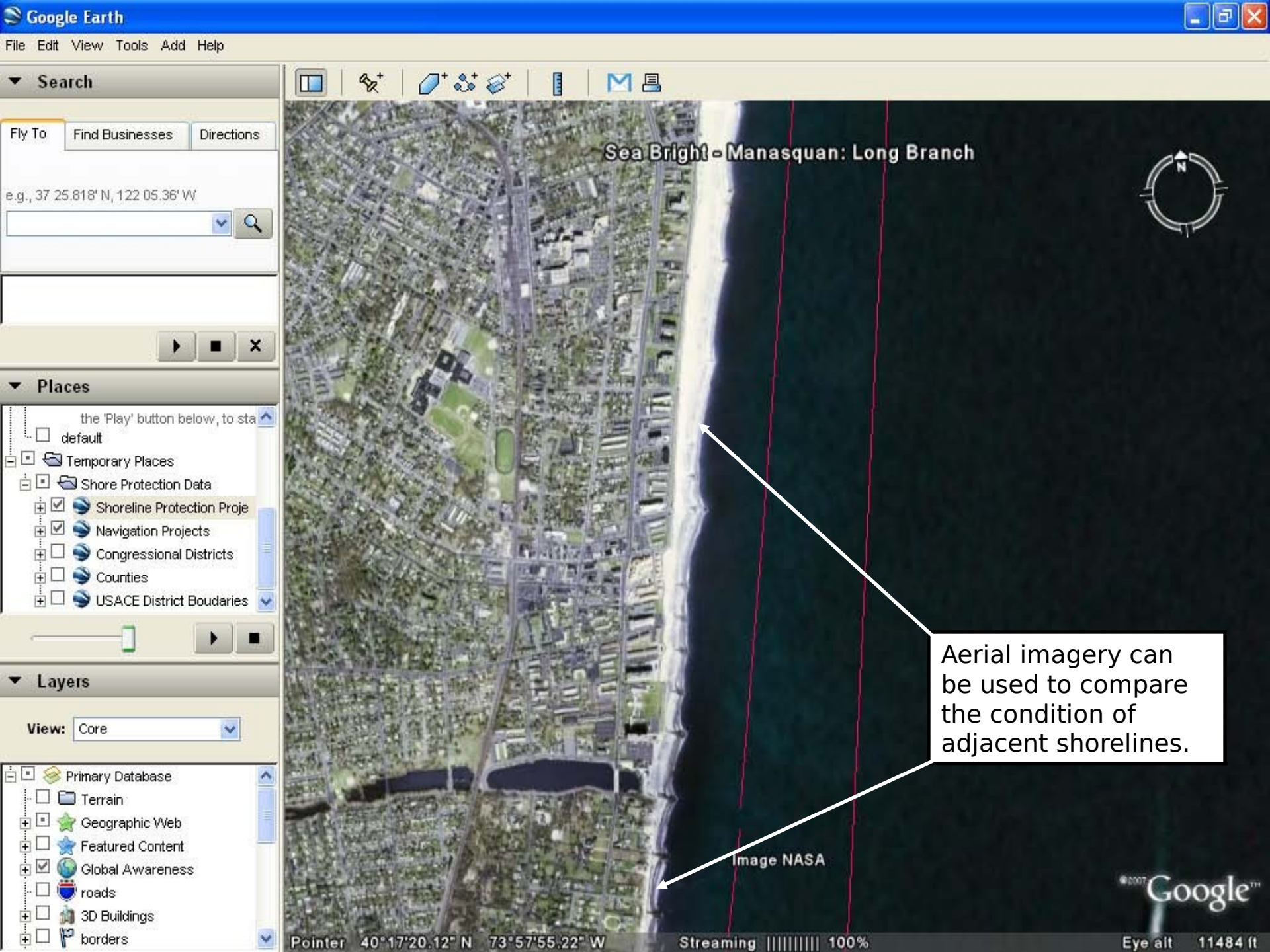
Port Monmouth
al Harbor and Compton Creek
Leonardo
Highlands
Shrewsbury River
Sea Bright - Manasquan: Sea Bright
Sea Bright - Manasquan: Monmouth Beach
Sea Bright - Manasquan: Long Branch
Sea Bright - Manasquan: Deal
Sea Bright - Manasquan
Image NASA
Image © 2007 DigitalGlobe
©2007 Google
Pointer 40°23'45.84" N 73°48'33.05" W
Streaming 100%
Eye alt 17.31 mi
Shore Protection projects (red, yellow, green lines) and Navigation (blue dots) are added as layers into the Google Earth map. The red, yellow, and green lines are representative of the project reliability.
Select project → Sea Bright to Manasquan – Long Branch


Google Earth
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Search
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Directions
e.g., 37 25.818' N, 122 05.36' W
Places
the 'Play' button below, to sta
default
Temporary Places
Shore Protection Data
Shoreline Protection Proje
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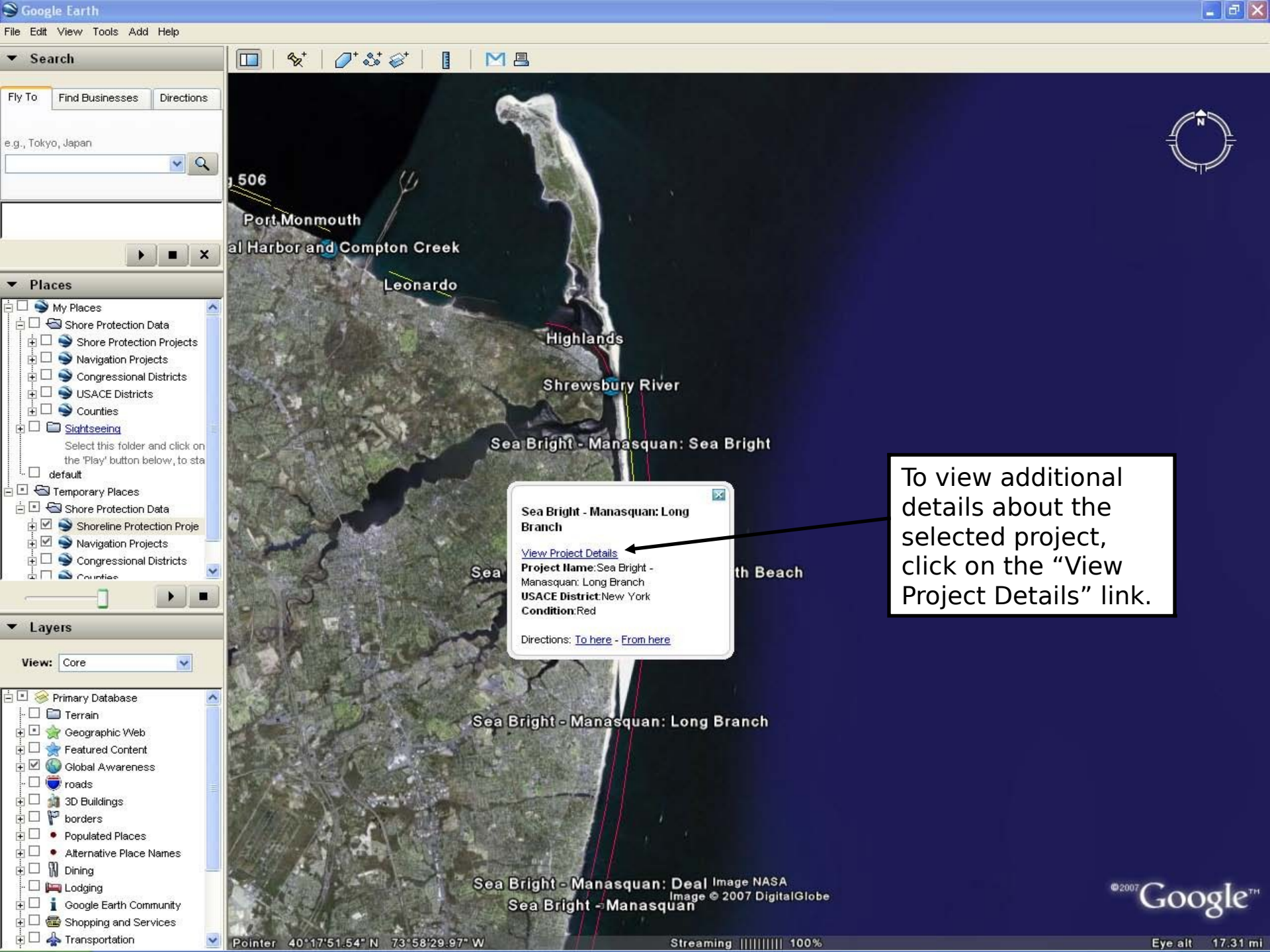
Layers
View: Core
Primary Database
Terrain
Geographic Web
Featured Content
Global Awareness
roads
3D Buildings
borders
Sea Bright - Manasquan: Long Branch
N
Aerial imagery can be used to compare the condition of adjacent shorelines.
Image NASA
©2007 Google
Pointer 40°17'20.12" N 73°57'55.22" W
Streaming 100%
Eye alt 11484 ft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Shrewsbury River
Sea Bright - Manasquan: Sea Bright
Sea Bright - Manasquan: Long Branch
Sea Bright - Manasquan: Deal
Sea Bright - Manasquan
Image NASA
Image © 2007 DigitalGlobe
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View Project Details
Project Name: Sea Bright - Manasquan: Long Branch
USACE District: New York
Condition: Red
Directions: To here - From here
To view additional details about the selected project, click on the “View Project Details” link.
Pointer 40°17'51.54" N 73°58'29.97" W
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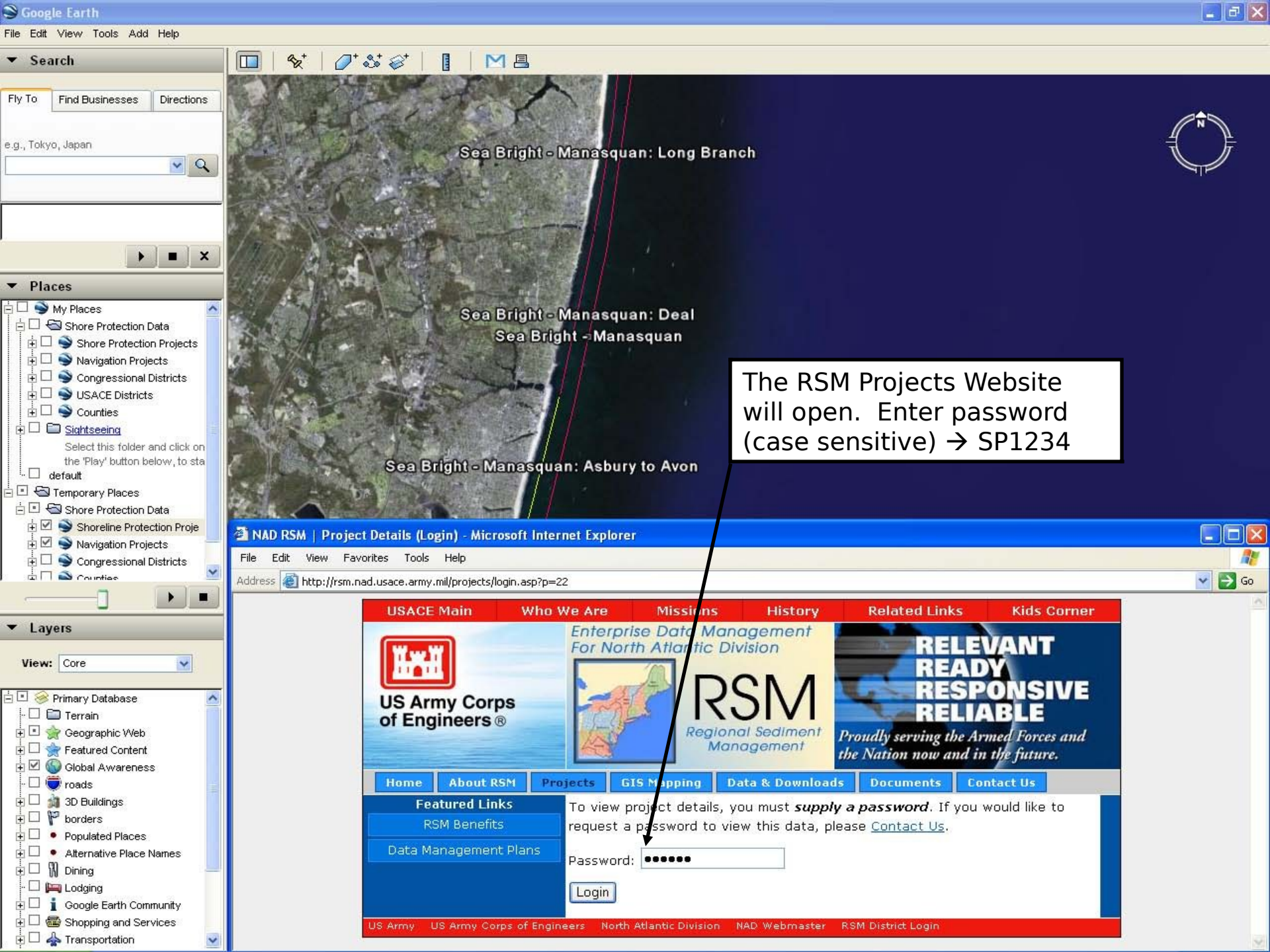
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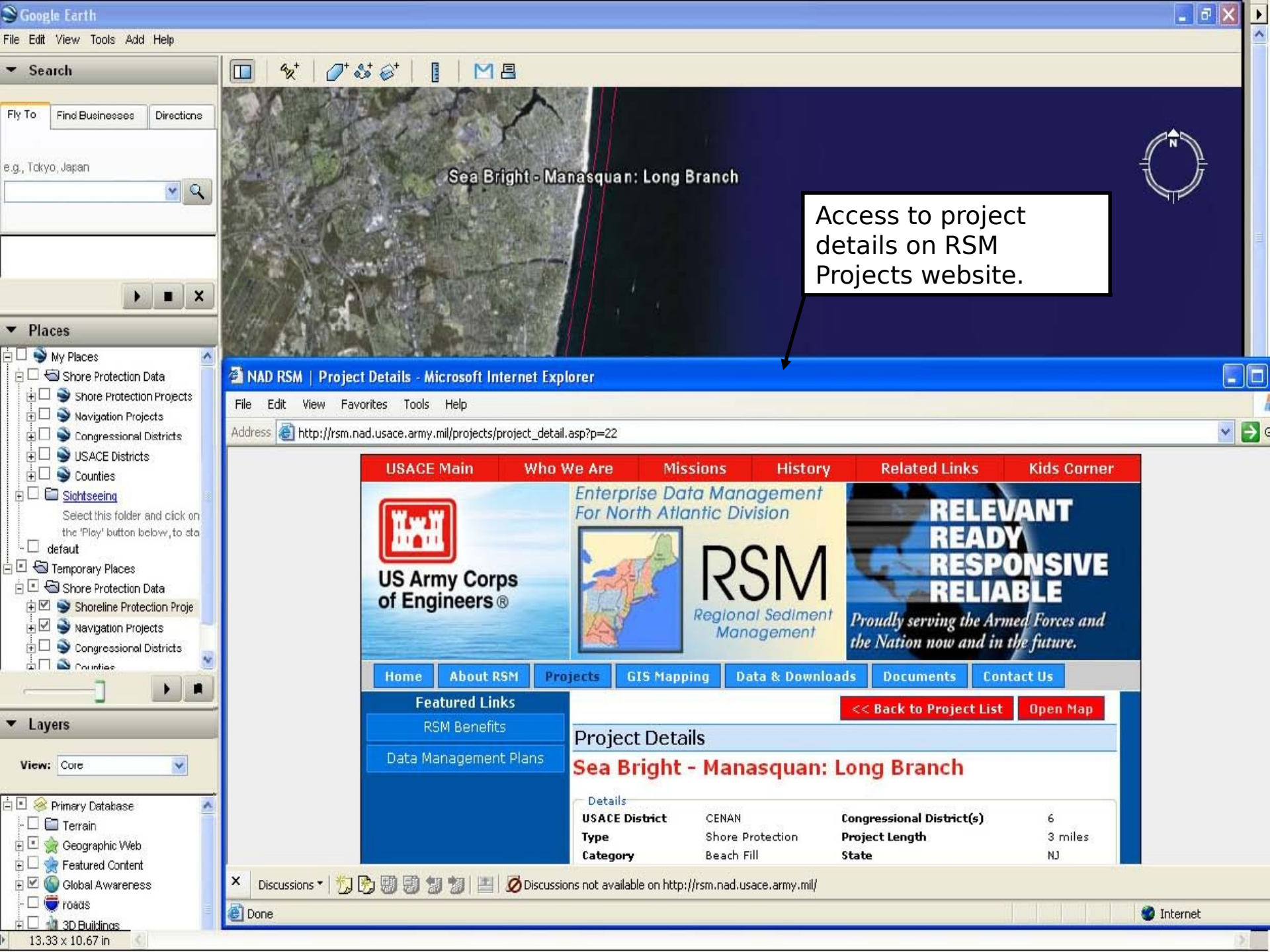
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Details
USACE District CENAN
Type Shore Protection
Category Beach Fill
Congressional District(s) 6
Project Length 3 miles
State NJ
Discussions
Discussions not available on http://rsm.nad.usace.army.mil/
Done
Internet